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(54) GROWING OF THIN FILM ELECTROLUMINESCENCE STRUCTURE

(57)Abstract:

PROBLEM TO BE SOLVED: To grow an SrS phosphor layer doped, with cerium by an atomic layer epitaxy method, exhibiting improved uniformity of luminance by employing, as a precursor of a cerium dopant an organic metal cerium compound containing a cyclopentadienyl type ligand.

SOLUTION: There is employed an organic metal cerium compound containing at least one cyclopentadienyl type ligand, preferably a compound represented by the formula: $CeCp_nR_{3-n}$. In the formula, R is hydrocarbyl; (n) is 1-3; Cp is the formula: $C_5R_1xR_2yH_{5-z}$; (x) and (y) are each 1-5; $x+y$ is (z) and $z \leq 5$; and R_{1-2} are each a lower alkyl. Preferably, a Ce precursor is one comprising a compound selected from tricyclopentadienyl derivatives and alkyl-substituted tricyclopentadienyl derivatives of cerium, and further preferably one selected from tetramethyl- and isopropyl-substituted Ce-tricyclopentadienyl compounds.

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